



Hydro-Search, Inc.

5250 So. Virginia Street, Suite 280 • Reno, Nevada 89502
HYDROLOGISTS - GEOLOGISTS - ENGINEERS
Phone (702) 829-1200 FAX (702) 829-1243
WATS (800) 347-4937

July 3, 1989
(24501-89)

Mr. Peter G. Morros
State Engineer
Division of Water Resources
201 South Fall Street
Carson City, Nevada 89710

Attention: Tom Gallagher

Subject: Well Construction/Abandonment Summaries

Dear Tom:

Enclosed are copies of the well construction summaries for wells drilled in the City of Carlin and the City of Elko on May 18 and 19, 1989. A well abandonment report for Southern Pacific Transportation Company well SPT-22 is included.

If you should have any questions regarding these wells, please call me at (702) 829-1200.

Very truly yours,

HYDRO-SEARCH, INC.

Jeanne M. Ruefer
Hydrogeologist

JMR:mrl

Basin 052 Log # 31864
N33 E52 Sec. 27 SW SE

Well Abandonment Report
Well SPT-22

This well was abandoned due to frost damage sustained during the winter of 1988-1989. Existing PVC casing was drilled out using 6-inch diameter hollow stem augers. Casing originally extended to 20 feet below land surface. During abandonment, augers were extended to 22 feet below land surface. The PVC casing and the gravel pack were completely removed from the borehole. Augers were left in the borehole to act as a tremie pipe.

Neat cement grout containing approximately 5% bentonite was tremied down the center of the hollow stem augers. The augers were withdrawn as the grout was emplaced. Grout was brought to land surface in this manner.

Basin 052 Log # 31865

M/O-163

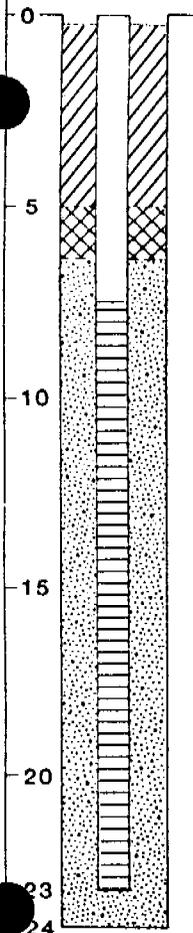
WELL/PROBE SP-22R

WELL/PROBE CONSTRUCTION SUMMARY

PROJECT: SPTCo Carlin Recovery Project
PROJECT NO.: 112E24501
PERSONNEL: Karen H. Suchomel

ELEVATION:
GROUND LEVEL: 4893.87
TOP OF RISER: 4893.76
TOP OF PROT. CASING:
LOCATION OR COORDS: 4951.39N, 4789.18E

N33 E52 Sec. 27 SW SE



DRILLING SUMMARY:
TOTAL DEPTH: 24'
BOREHOLE DIAMETER: 6"
DRILLER: Chen-Northern Drillers
Salt Lake City, Utah
RIG: Auger
BIT(S): 6" hollow stem auger
DRILLING FLUID: none
SURFACE CASING: none

TASK	START		FINISH	
	DATE	TIME	DATE	TIME
DRILLING:	1989		1989	
	5/19	1000	5/19	1200
GEOPHYSICAL LOGGING:	--	--	--	--
CASING:				
FILTER PLACEMENT:	5/19			
CEMENTING:	5/19			
DEVELOPMENT:	5/19	1500	5/19	1600
OTHER:				

WELL DESIGN:
BASIC: GEOLOGIC LOG X GEOPHYS. LOG
CASING STRING(S): C=CASING / S=SCREEN
0 - 8 C1
8 - 23 S1

CASING: 2" O.D Sch 40 PVC Blank

SCREEN: 2" O.D. Sch 40 0.02" Slot

CENTRALIZERS:

FILTER MATERIAL: 1020 Colorado Sand

CEMENT: neat cement grout

OTHER: 6" cristy box at surface cemented in

DEVELOPMENT SUMMARY:
Removed 25 gallons with teflon bailer

pH = 6.83
EC = 15,000
temp = 11°C

COMMENTS:
Depth to water = 5.79' below TOC

casing volume = 2.6 gallons

Q51 N33 E52 27 cdc

350?

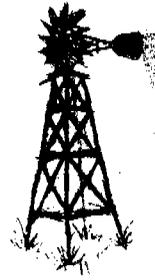
R.D. REYNOLDS DRILLING

(702) 752-3205

P.O. Box 402

Wells, Nevada 89835

1/2 mile South on Hwy. 93



Tom Gallagher
State Engineer
Re: Hydro-Search
Abandonment Railroad
wells in Carlin, Nv.

Please be advised that the two 12 ft. sumpwells located in Carlin, Nv. SW 1/4 of SE 1/4 of SW 1/4 Township 33N. Section 27 Range 52 east were abandoned on April 28th, 1989. No attempt was made to pull the culvert which was serving as casing. Due to the thin wall of the culvert and adhesion to the earth it could not be pulled. The culvert was then cemented in using a tremie pipe with 9 sack grout from the bottom up. The diesel fuel that was in culvert leaked out through the holes. Grout is 6" below grade.

Sincerely,

R.D. Reynolds
[Signature]

5/3/89